

I CLAIM:

1. An accelerating device for a scooter comprising a platform, a pedal, an elastic member, a sector gear, a transmission gear, a shaft, a one-way ratchet gear set, an accelerating gear set, and a rear wheel, said platform being
5 connected with said elastic member and one end of said pedal at a rear end, said pedal comprising an extension board at a rear end to secure said sector gear, said sector gear meshing with said transmission gear, said transmission gear being pivoted to said shaft, said transmission gear linking with said ratchet gear set, said ratchet gear set linking with said accelerating gear set,
10 while said accelerating gear set linking with said rear wheel, thus, when stepping on said pedal, said sector gear linking said ratchet gear set, said accelerating gear set and said rear wheel to move through said transmission gear.
2. The accelerating device for a scooter, as recited in claim 1, wherein said
15 pedal is in an arcuate shape.
3. The accelerating device for a scooter, as recited in claim 1, wherein said ratchet gear set comprises an inner disc, an outer disc, engaging blocks and springs, said outer disc comprising a ratchet-shaped recess, said engaging blocks and said springs being placed between said inner disc and said outer disc, said springs being in touch with said engaging blocks towards said recess
20 of said outer disc in such a manner that upon said inner disc spinning in a clockwise direction, said engaging blocks engaging with said outer disc and linking said outer disc to move, upon said inner disc spinning in a counterclockwise direction, said recess pushing said engaging blocks backward and urging said springs, which allows said outer disc and said inner disc being idle to spin with each other, and said transmission gear and said inner disc of said ratchet gear set being secured together and linked to move
25 together.
4. The accelerating device for a scooter, as recited in claim 1, wherein said
30 accelerating gear set comprises a fixed gear, a planetary gear set and a delivery

gear, said planetary gear set having a board pivoted with planetary gears, planetary pinions and large gears thereon, each pair of said planetary pinion and said large gear sharing a same shaft on said board, said planetary gears meshing with said fixed gear and said planetary pinions, said large gears 5 meshing with said delivery gear, said delivery gear having a sleeve linked with said rear wheel, and said fixed gear linking with said outer disc of said ratchet gear set.

5. The accelerating device for a scooter, as recited in claim 1, wherein said accelerating gear set comprises a fixed gear, a planetary gear set, and a 10 delivery gear, said planetary gear set having a board pivoted with planetary gears thereon, said planetary gears meshing with said fixed gear and said delivery gear, said delivery gear having a sleeve linked with said rear wheel, and said fixed gear linking with said outer disc of said ratchet gear set.